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Recommended Guidance for Evaluation

of the

Community On-line Intelligence System (COIND)

Experiment

- 1. Objective: To design, develop and implement an experimental, interagency, on-line, computer based intolligence information system with remote access capability which will operate at the Top Scoret SI security level.
- a. How is the achievement of this objective to be identified and measured?
- (1) The first part of the objective has been partially achieved; i.e., the system has been estimated, the hardware installed and connected by means of engaged, protected communication circuits, and some intelligence information files are available in some agencies for memote interrogation by users at all participating agencies. When all elements of the network are functioning together as planned and users can efficiently access any COINS file in measonable time during a measonable period of each working day, the first part will have been achieved.
- (2) A Test and Analysis Plan has been approved to collect and routinely publish statistics on system utilization and performance, and user opinions and attitudes towards COINS.
 - (3) The feasibility of the system is very dependent upon its ability to operate securely and to demonstrate that inadvertent violations of "need to know" can be limited to an acceptable level.
 - b. What constitutes success or failure in the sobjective?
 - (1) Success of this objective will depend upon the technical capability of the system to operate the carely, reliably and efficiently.
 - (2) Failure will result from inefficient paration or lack of reliability of the network, excessive continue or excessive interrogation response time.

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- (3) An excessive occurrence of accidental spillage and violations of need to know" will constitute prima facie evidence of a failure to achieve the object
- 2. Objective: To test the COINS capability to find data bases in one agency more readily accessible to analyze in other agencies, and to ascertain the essential characteristics of files which make them suitable for inclusion in a COINS-like network.

- a. How is the achievement of this objective to be identified and measured?
- is configured to facilitate relatively quick reference to data bases maintained in the computer systems of participating agencies by intelligence analysts in all other agencies. It is intended that interrogations be short and direct and that responses be limited in output volume. A capability for transfer of complete files for batch processing operations will not be available during the experimental phase.
- on file usage, and, in addition, each analyst who queries a COINS file will provide information on file usage satisfaction via the User Log Form. The in-depth interviews of COINS users which each COINS participating agency will conduct should be particularly fruitful for obtaining data on user reactions to the COINS concept of accessing files and user file preferences. In addition, the IHC has requested that each of its members provide data on the types of files recommended for inclusion in an operational COINS.
- that a given file is suitable for an on-line interagency system, the question is: Can its characteristics be identified and assigned meaningful values against which to measure the suitability of proposed new files without resorting to actual on-line retrieval experience with the new files? If possible, an attempt should be made midway during the Test and Analysis Phase to identify those files that appear to be suitable for interagency use and to evaluate the characteristics which determine that suitability. Some of the factors to be examined are: subject and area coverage, sources of information data elements included, size of each record, date span, update frequency, number of users by agency (potential

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users for a proposed file), response time required by users, alternative methods of data exchange, etc.

b. What constitutes success or failure in the achievement of this objective?

- (1) The objective will be successful if the experiment demonstrates that access to information through COINS is reasonably efficient and results in generally favorable user reaction when contrasted with the more conventional methods of data retrieval and exchange.
- (2) This objective will be successfully met if a set of files can be identified which would have high utility in an interagency on-line system. This could include judgements that an efficient COINS-like system containing more suitable data bases would have higher utility.
- (3) Experience with other on-line information retrieval systems has shown that with an increase in system efficiency and experience gained by users increased confidence is realized and more specific requirements come into focus. If the mechanism provided by COINS management for data base modification (COINS Operational Procedure No. 1-1968, 22 November 1968) is utilized as a result of user interest files of greater utility may result.
- 3. Objective: To provide practical training and actual experience for intelligence analysts in the use of an interagence on-line intelligence retrieval system.

a. How is the achievement of this objective to be identified and measured?

(1) Each COINS participating agency has conducted, is conducting, and will conduct training sessions for potential COINS users. Each agency has produced written training materials describing how to use various portions of the COINS network. The COINS Environment Report, which the Test and Analysis Panel has asked each COINS participant to prepare, will detail the measures taken by each agency to interest analysts in the use of COINS and the level and detail of training provided.

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- (2) Periodic reports from the COINS Training Panel will provide information on training activities, status and progress.
- (3) In-depth interviews of users which are planned by the Test and Analysis Panel will provide insight into the degree of training provided, experience gained and additional training required.
- b. What constitutes success or failure in the achievement of this objective?

The objective will be successfully achieved if a representative group of analysts in each COINS participating agency is able to query COINS files with a minimum of difficulty. In addition, those who are so trained must exercise the system sufficiently to gain a level of experience which would permit their evaluation of system utility.

- 4. Objective: To determine those elements of the total systematical which encourage and facilitate analyst usage and those elements which discourage or hinder usage.
- a. How is the achievement of this objective to be identified and measured?

The following factors must be examined to determine the threshold between encouraging and discouraging analyst use. For example, analysts might be encouraged to use a system that was highly reliable but would be discouraged from using a system that was not reliable.

- (1) Suitability of data bases.
- (2) Number, type, location and ease of operation of remote terminals.
- (3) Query languages: one vs. many, abbreviations/mnemonics versus plain language; query procedures (i.e., the utilization of preprogrammed queries vs. use of an on-line query language).
 - (4) Response time
 - (5) System reliability
 - (6) System availability (days and hours)
 - (7) Usability and readability of outputs

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- (8) Type and amount of user training
- (9) Currency of data bases
- (10) Interactive vs. non-interactive procedures.
- (11) Type and quality of analyst aids (handbooks, on-line file and query descriptions, etc.)

b. What constitutes success or failure in the achievement of this objective?

This objective will be successfully met if each agency is conscientious in its collection of data on user reactions to COINS. Low user participation in COINS could result in inadequate data collection.

5. Objective: To collect the necessary data on file usage system efficiency and reliability and user reaction to permit an evaluation of the feasibility and utility of operational implementation of a follow-on CCINS-like system.

a. How is the achievement of this objective to be identified and measured?

The Test and Analysis Panel has developed a plan, procedures, and forms for collecting the desired data and this plan has been approved by all COINS participants. However, it should be constantly reviewed (monthly at least) during the T&A period to determine if additions, deletions, or modifications are necessary.

b. What constitutes success or failure in the achievement of this objective?

- (1) If the data collection plan is followed as recommended, and if there is sufficient usage of the network to obtain the desired user reaction then this objective will be partially or fully met. Partial failure could result from gaps in the data collection plan which were not anticipated during the planning stage.
- (2) This objective will be met if the data collected during the operational test shows conclusively that an operational COINS network is or is not needed at this time.
- 6. Objective: Determine the elements and attributes which would be critical to the success of a full system for comproved for Release 2006/07/06 a circ RDP80B01139A000100060008-9 tives and specifications for an operational system.

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a. How is the achievement of this objective to be identified and measured?

If all other objectives are met, the data will be available to develop a system plan for an operational COINS network. In other words, this objective is unique in that it is completely dependent on the satisfaction of all the other objectives.

b. What constitutes success or failure in the achievement of this objective?

- (1) It will succeed if sufficient data is obtained to define the principal parameters of an operational community system.
- (2) This objective could fail if inadequate or inconclusive data is collected in an area critical to the design of an operational system.